

ABAC Meeting Presentation

07-21-21

Daniel Amstutz, Town of Arlington
Department of Planning & Community
Development

Items in this Presentation

1. MBTA Bus Network Redesign
2. Bike Friendly Community Designation & Report Card
3. Data Update: Bluebikes and Minuteman Bikeway
4. Chestnut Street at Chestnut Terrace
5. Minuteman Bikeway Planning Project
6. Connect Arlington, Sustainable Transportation Plan

Bus Network Redesign



Timeline: 2018 – 2022

Status: Planning

- Reimagining of bus network from the ground up
 - Make it simpler to understand
 - Create more equitable network
 - Make transit competitive
 - Maximize access to opportunities
- Survey available:

<https://www.mbta.com/projects/better-bus-project/update/take-the-bus-network-redesign-travel-survey>



ARLINGTON, MA

TOTAL POPULATION

45,147

TOTAL AREA (sq. miles)

5.2

POPULATION DENSITY

8682

OF LOCAL BICYCLE FRIENDLY BUSINESSES

0

OF LOCAL BICYCLE FRIENDLY UNIVERSITIES

0

10 BUILDING BLOCKS OF A BICYCLE FRIENDLY COMMUNITY

	Average Gold	Arlington
High Speed Roads with Bike Facilities	35%	27%
Total on- and off-road Bicycle Network Mileage to Total Road Network Mileage	76%	11%
Bicycle Education in Schools	GOOD	NEEDS IMPROVEMENT
Share of Transportation Budget Spent on Bicycling	14%	7%
Bike Month and Bike to Work Events	VERY GOOD	GOOD
Active Bicycle Advocacy Group	YES	YES
Active Bicycle Advisory Committee	MEETS AT LEAST MONTHLY	MEETS AT LEAST MONTHLY
Bicycle-Friendly Laws & Ordinances	GOOD	GOOD
Bike Plan is Current and is Being Implemented	YES	UNDER DEVELOPMENT
Bike Program Staff to Population	1 PER 33K	1 PER 75K

CATEGORY SCORES

ENGINEERING <i>Bicycle network and connectivity</i>	4.82 _{/10}
EDUCATION <i>Motorist awareness and bicycling skills</i>	3.41 _{/10}
ENCOURAGEMENT <i>Mainstreaming bicycling culture</i>	3.61 _{/10}
EVALUATION & PLANNING <i>Setting targets and having a plan</i>	4.46 _{/10}

KEY OUTCOMES

	Average Gold	Arlington
RIDERSHIP <i>Percentage of Commuters who bike</i>	5.1%	3.74%
SAFETY MEASURES CRASHES <i>Crashes per 10k bicycle commuters</i>	287	426
SAFETY MEASURES FATALITIES <i>Fatalities per 10k bicycle commuters</i>	2.2	2.13

Data Update: Swan Place Eco Counter and Bluebikes

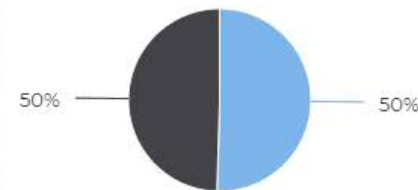
Location

Arlington, MA - Minuteman Counter



Distribution by User Type

Current ... Arlington, MA - Minut...



● Arlington, MA - Minuteman Cou...
● Arlington, MA - Minuteman Cou...

Pictures Gallery

Arlington, MA - Minuteman Counter



Daily Avg. - Week - Pedestri...

Current ... Arlington, MA - Minut...

Daily Average

698

Compared to Previous Year

Daily Avg. - Weekend - Pede...

Current ... Arlington, MA - Minut...

Daily Average

774

Compared to Previous Year

Daily Avg. - Week - Cyclists

Current ... Arlington, MA - Minut...

Daily Average

618

Compared to Previous Year

-12.3%

Daily Avg. - Weekend - Cycli...

Current ... Arlington, MA - Minut...

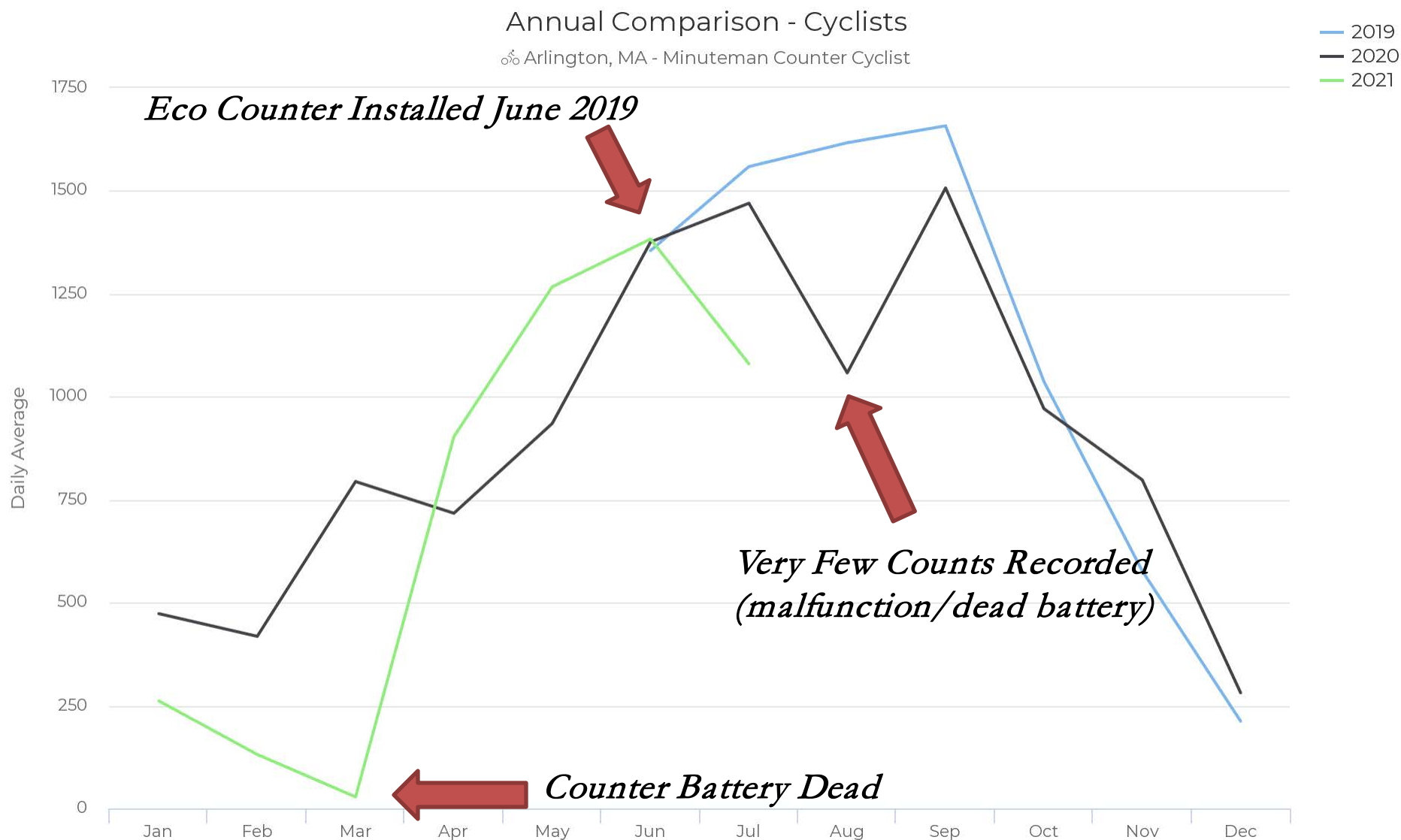
Daily Average

925

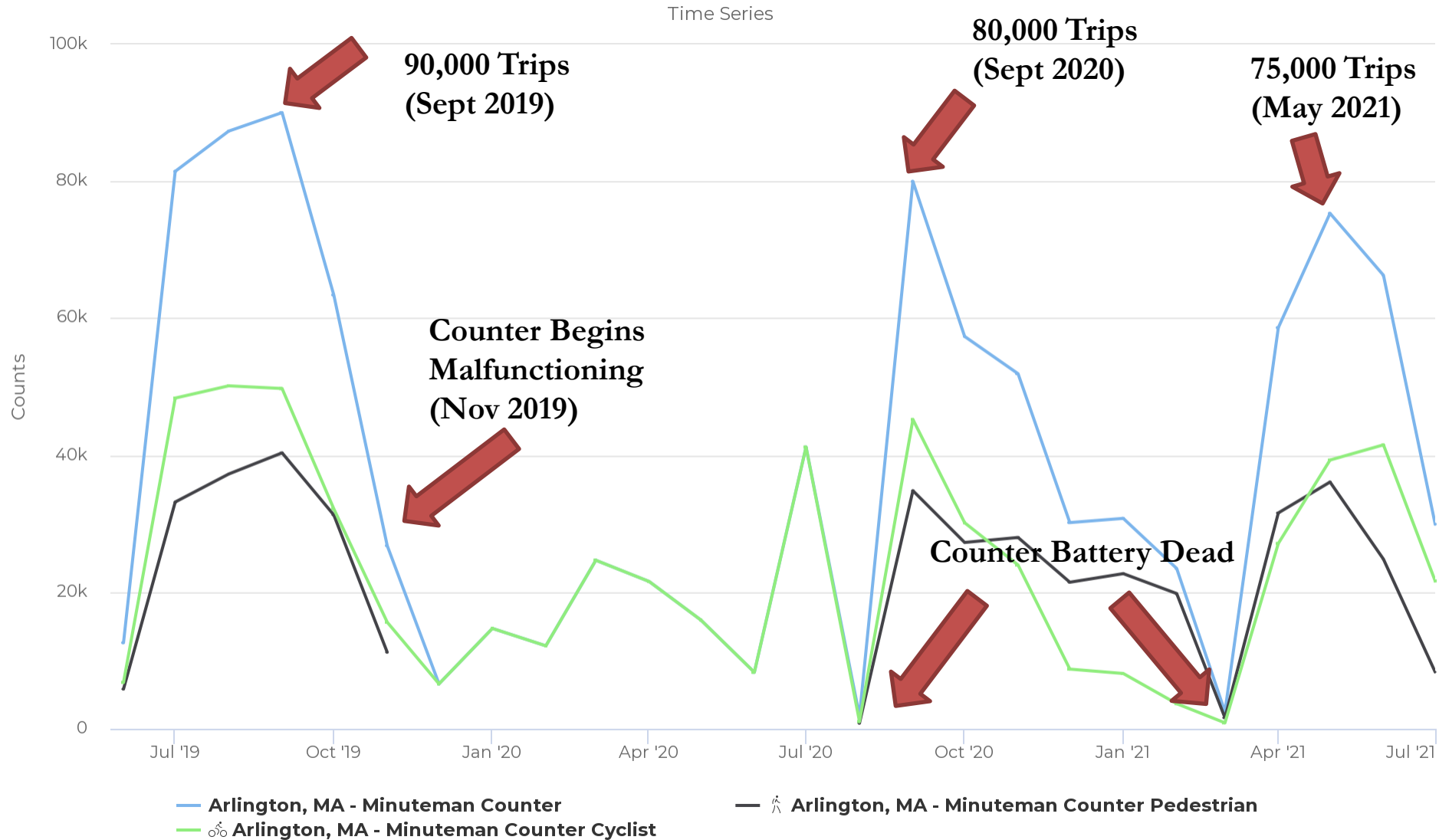
Compared to Previous Year

-5.1%

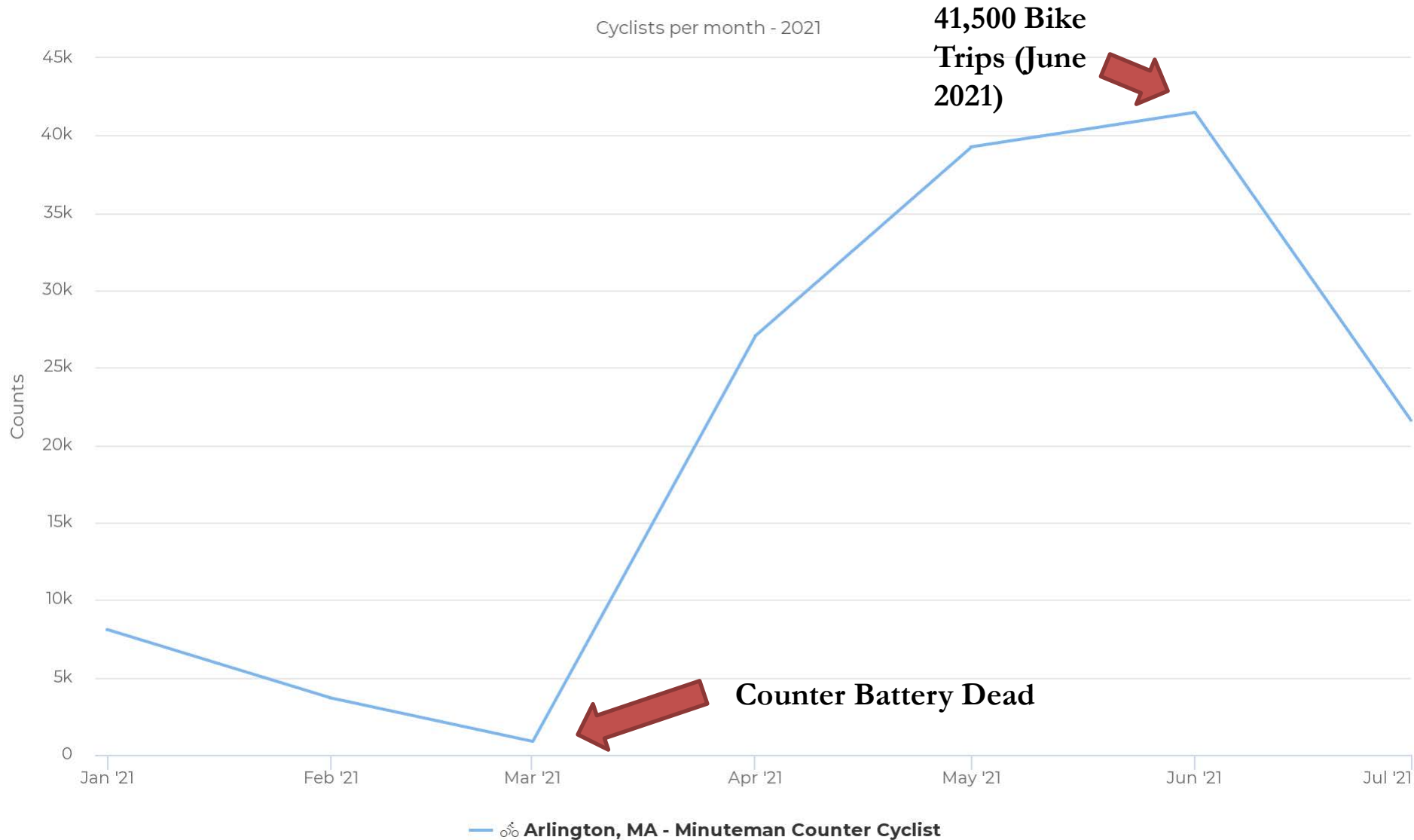
Data Update: Swan Place Eco Counter



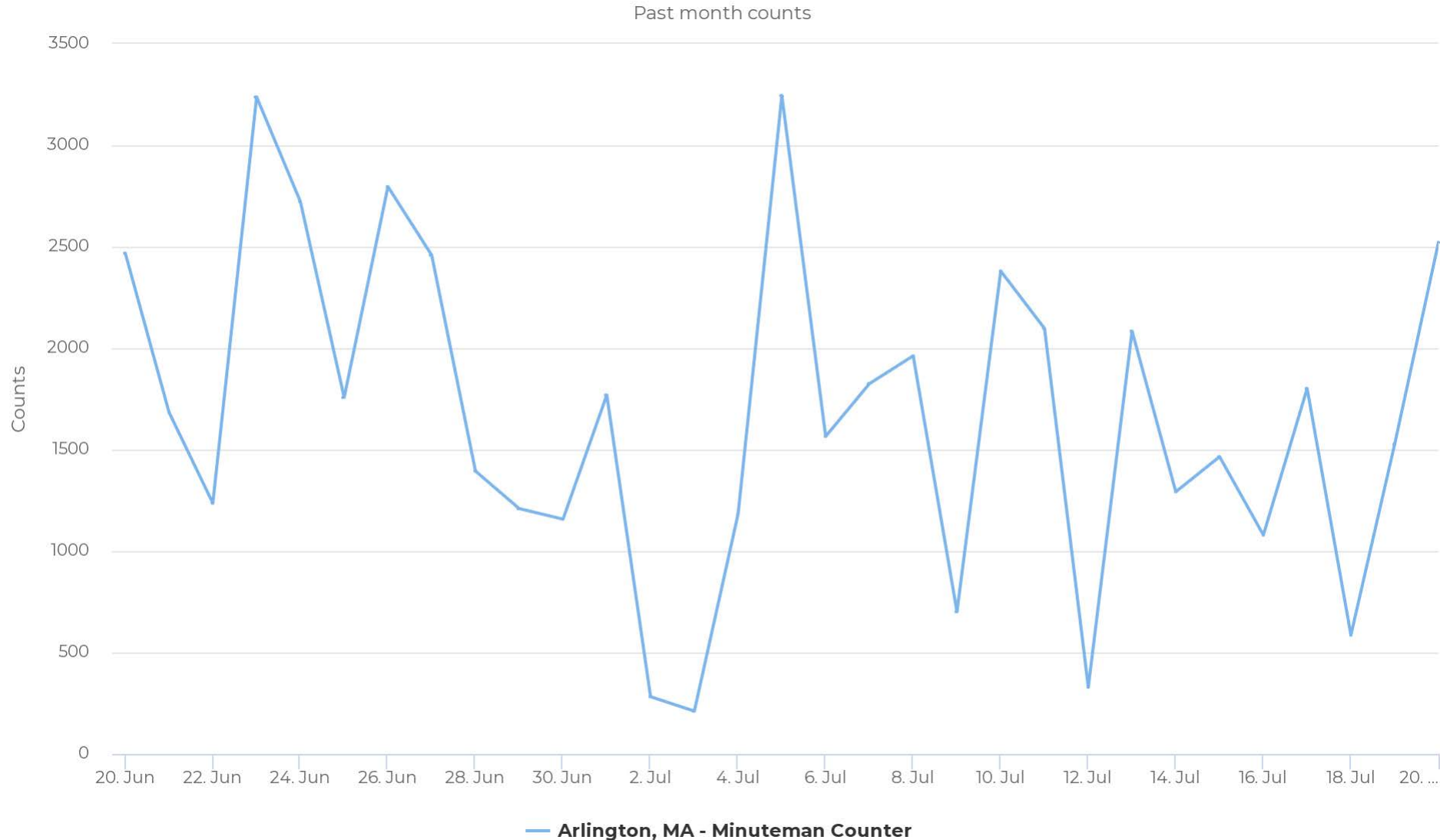
Data Update: Swan Place Eco Counter



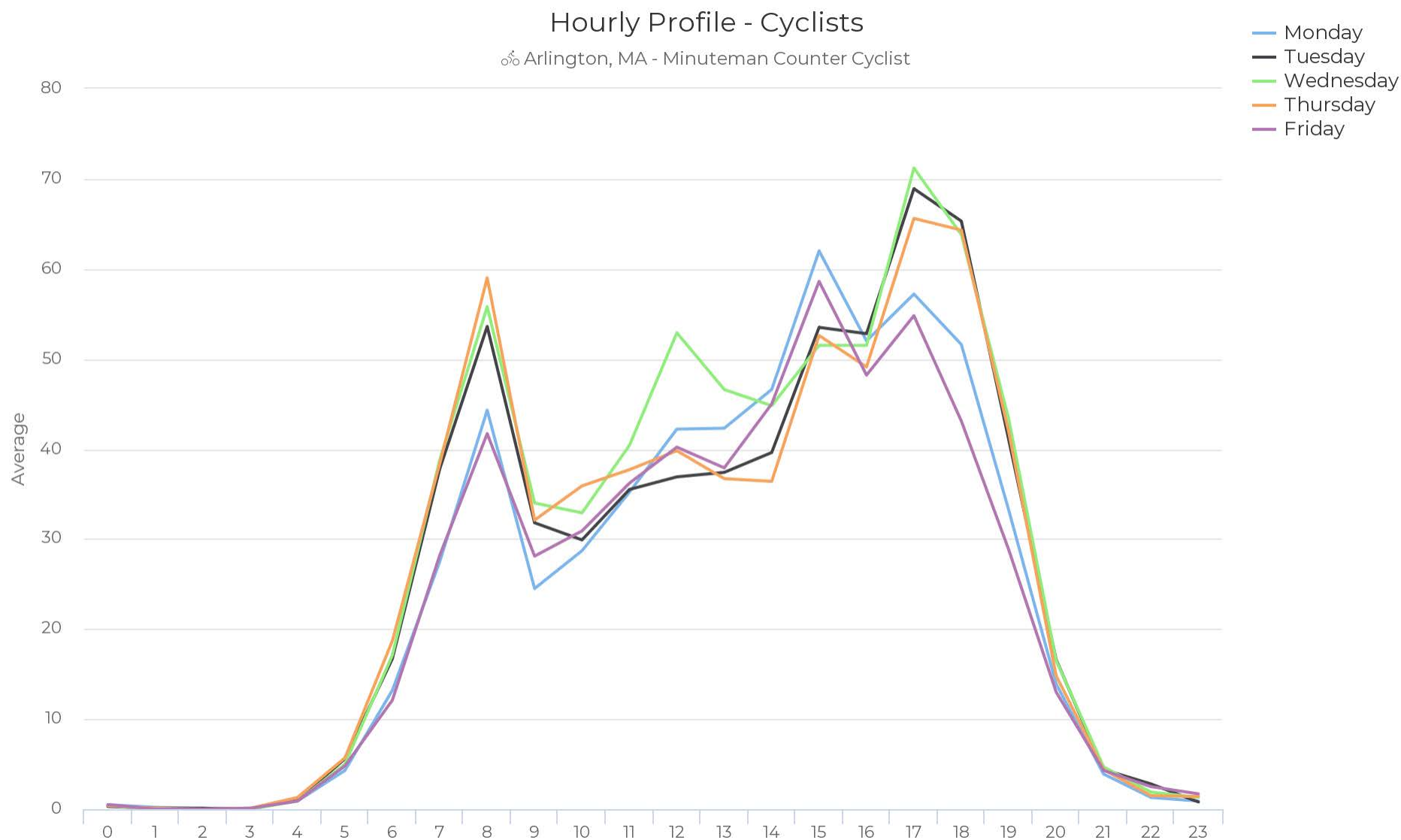
Data Update: Swan Place Eco Counter



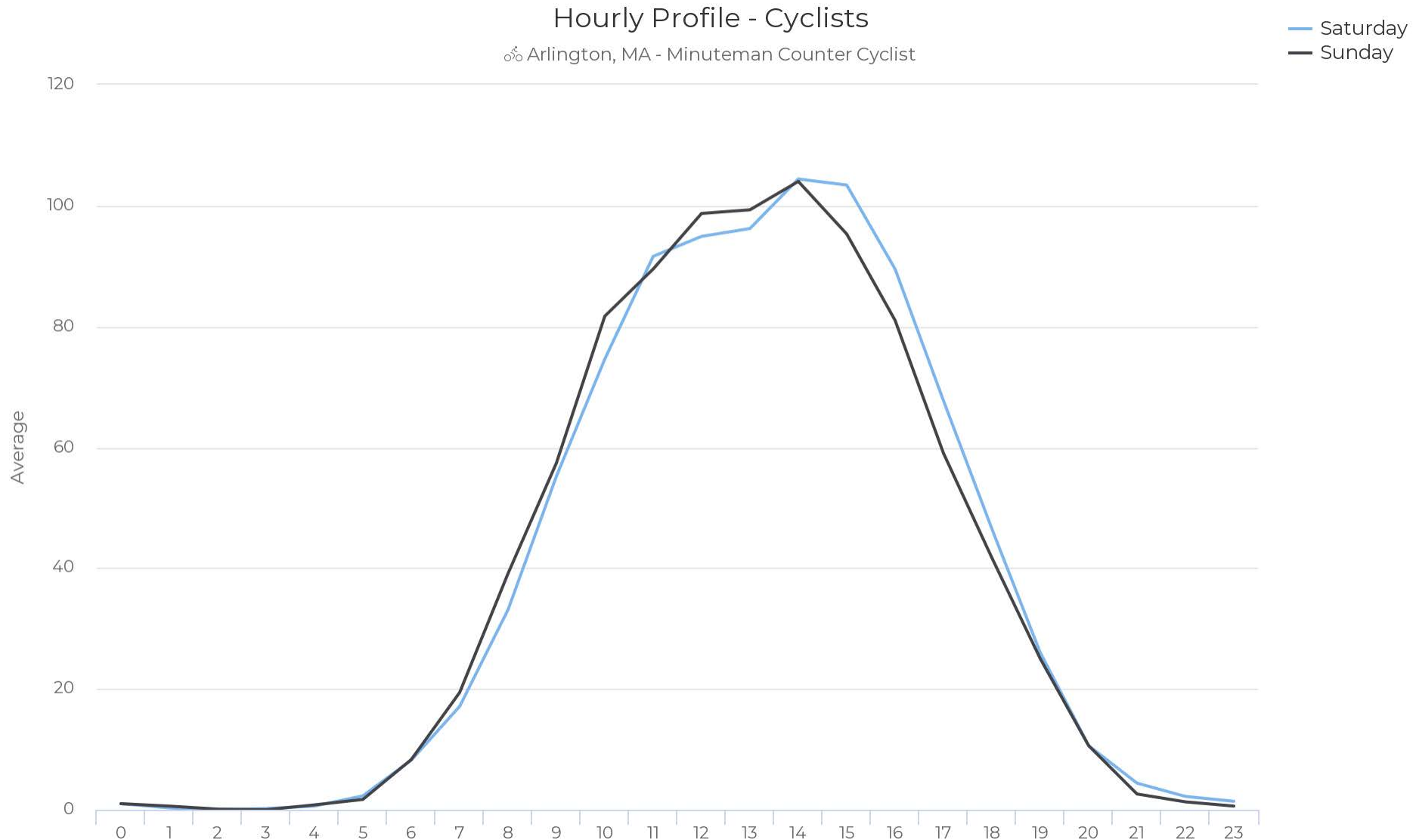
Data Update: Swan Place Eco Counter



Data Update: Swan Place Eco Counter



Data Update: Swan Place Eco Counter



Bluebikes Data

- Trip Data:
 - 3,855 trips year-to-date in 2021
 - (+ 2,335 from two months ago)
 - 1,046 trips in May 2021
 - 1,179 in June 2021
 - 709 in July so far
 - Greatest number of trips near Bikeway locations
 - (RR Lot @ Bikeway and Linwood St @ Bikeway make up 50% of all trips)



Bluebikes Data

A	B	C	D	E	F	G
May 2021						
District	Logical Temrinal Name	Station Name	Starting Trips	Ending Trips		
Arlington	L32001	Railroad Lot and Minuteman Bikeway	319	326		
	L32002	Linwood St at Minuteman Bikeway	259	266		
	L32003	Mass Ave at Grafton St	74	71		
	L32004	Broadway at Grafton St	81	75		
	L32005	Thorndike Field at Minuteman Bikeway	207	198		
	L32006	Mass Ave at Broadway	102	114		
					Total Attributed trips	1046

A	B	C	D	E	F	G
June 2021						
District	Logical Temrinal Name	Station Name	Starting Trips	Ending Trips		
Arlington	L32001	Railroad Lot and Minuteman Bikeway	326	343		
	L32002	Linwood St at Minuteman Bikeway	241	264		
	L32003	Mass Ave at Grafton St	101	121		
	L32004	Broadway at Grafton St	60	78		
	L32005	Thorndike Field at Minuteman Bikeway	234	211		
	L32006	Mass Ave at Broadway	188	191		
					Total Attributed trips	1179

Note: Trips are “attributed” to Arlington stations by summing the number of starting and ending trips and dividing by two.

Bluebikes Data

A	B	C	D	E	F	G
July 2021 as of 07-21-21						
District	Logical Temrinal Name	Station Name	Starting Trips	Ending Trips		
Arlington	L32001	Railroad Lot and Minuteman Bikeway	187	219		
	L32002	Linwood St at Minuteman Bikeway	175	194		
	L32003	Mass Ave at Grafton St	73	70		
	L32004	Broadway at Grafton St	49	51		
	L32005	Thorndike Field at Minuteman Bikeway	125	126		
	L32006	Mass Ave at Broadway	74	74		
					Total Attributed trips	708.5

A	B	C	D	E	F	G
Year-to-Date as of 07-21-21						
District	Logical Ten	Station Name	Starting Trips	Ending Trips		
Arlington	L32001	Railroad Lot and Minuteman Bikeway	994	1,063		
	L32002	Linwood St at Minuteman Bikeway	823	874		
	L32003	Mass Ave at Grafton St	278	288		
	L32004	Broadway at Grafton St	224	238		
	L32005	Thorndike Field at Minuteman Bikeway	1,044	1,016		
	L32006	Mass Ave at Broadway	420	447		
					Total Attributed trips	3854.5

Note: Trips are “attributed” to Arlington stations by summing the number of starting and ending trips and dividing by two.

Data Update

Join us for a free webinar!

How to Make Your Bike Data Count

Tuesday 20th July 2020
2-3 PM (ET)



Mike Stefancic
Vice President
Treasure Valley
Cycling Alliance



Amanda Poncy
Bicycle and Pedestrian
Coordinator,
City of Charlottesville



Andrea Shillolo
Client Consultant,
Eco-Counter

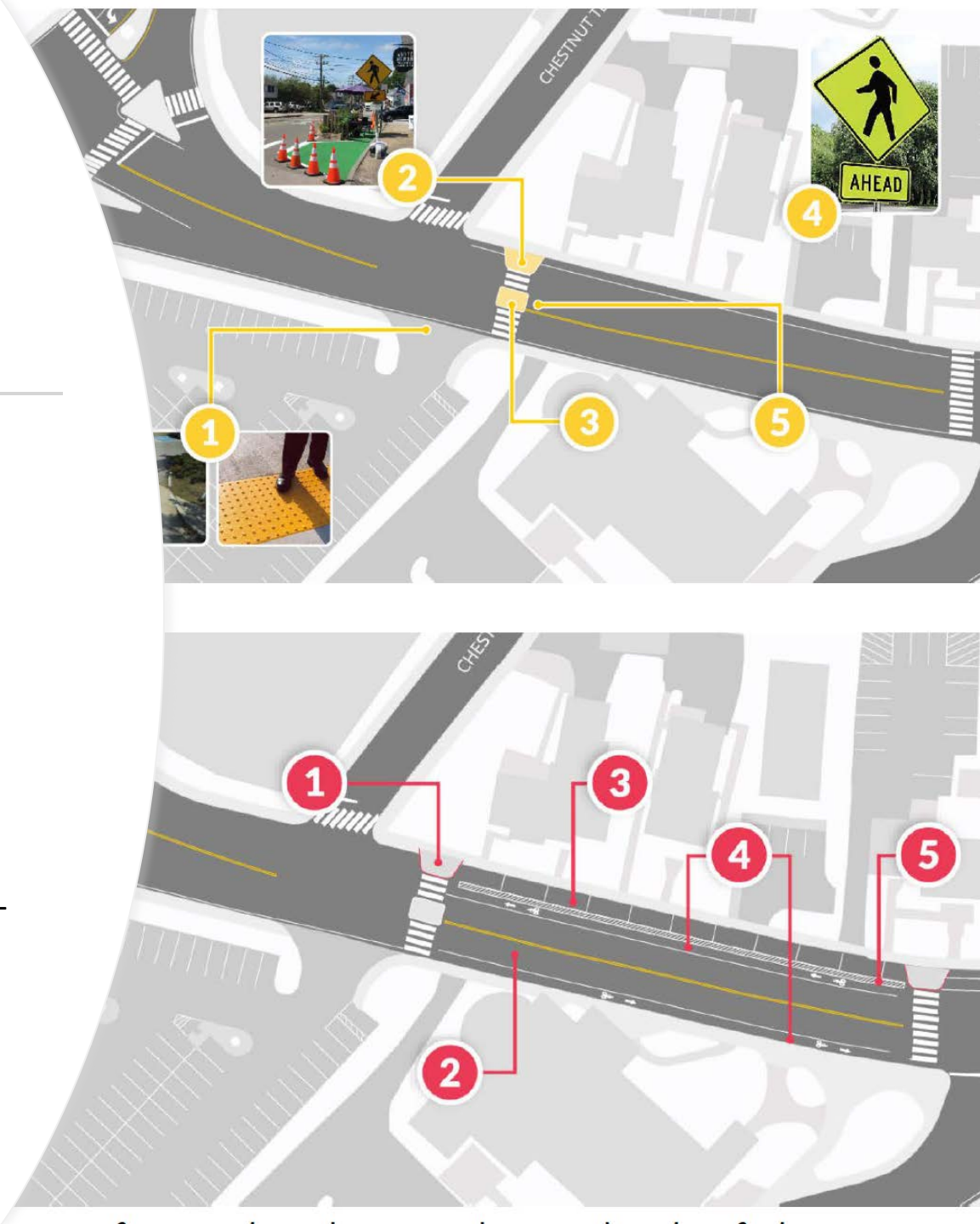


Moderator:
Amelia Neptune
Director – BFA Program
League of American Bicyclists

<https://www.biketreasurevalley.org/bike-count-data>

Chestnut Street at Chestnut Terrace

- Select Board approved TAC recommendations at June 21 meeting
- Includes safety improvement recommendations such as bump outs, refuge island, pedestrian-activated warning beacon, lane narrowing with bike lanes, and further work towards identifying how to approach possible longer-term project for geometric changes to Mystic/Chestnut



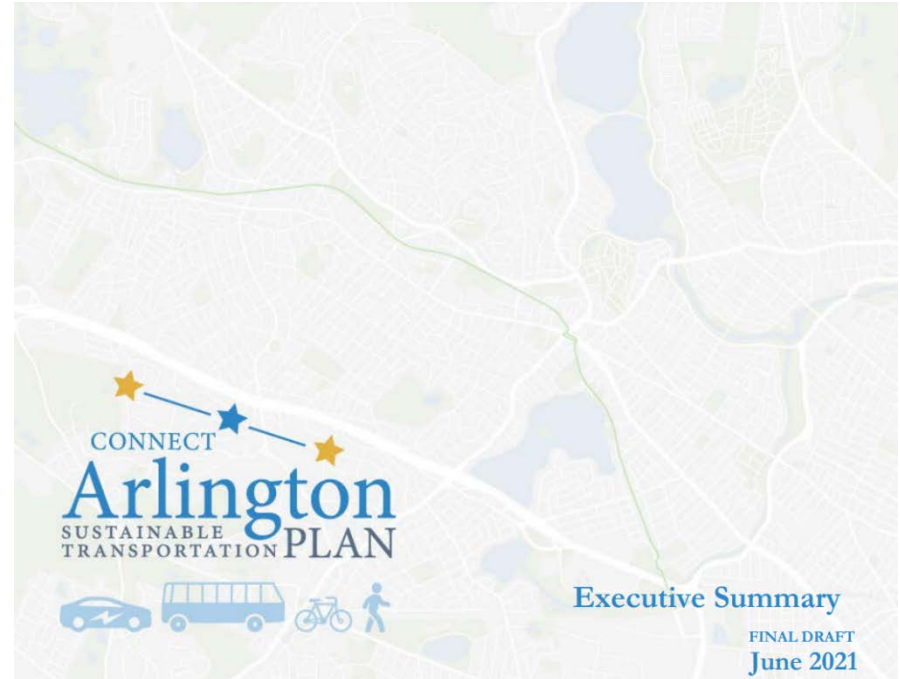


Minuteman Bikeway Planning Project

- Received six Proposals
- Two deemed not acceptable, reviewed four
- Interviewed two last week
- Recommended Kittelson & Associates; contract forthcoming
- Expect project kick-off later in August at earliest
- Goals/tasks included: review and recommendations for maintenance, safety, waysides/staying areas, policies and education, artwork; plus visioning

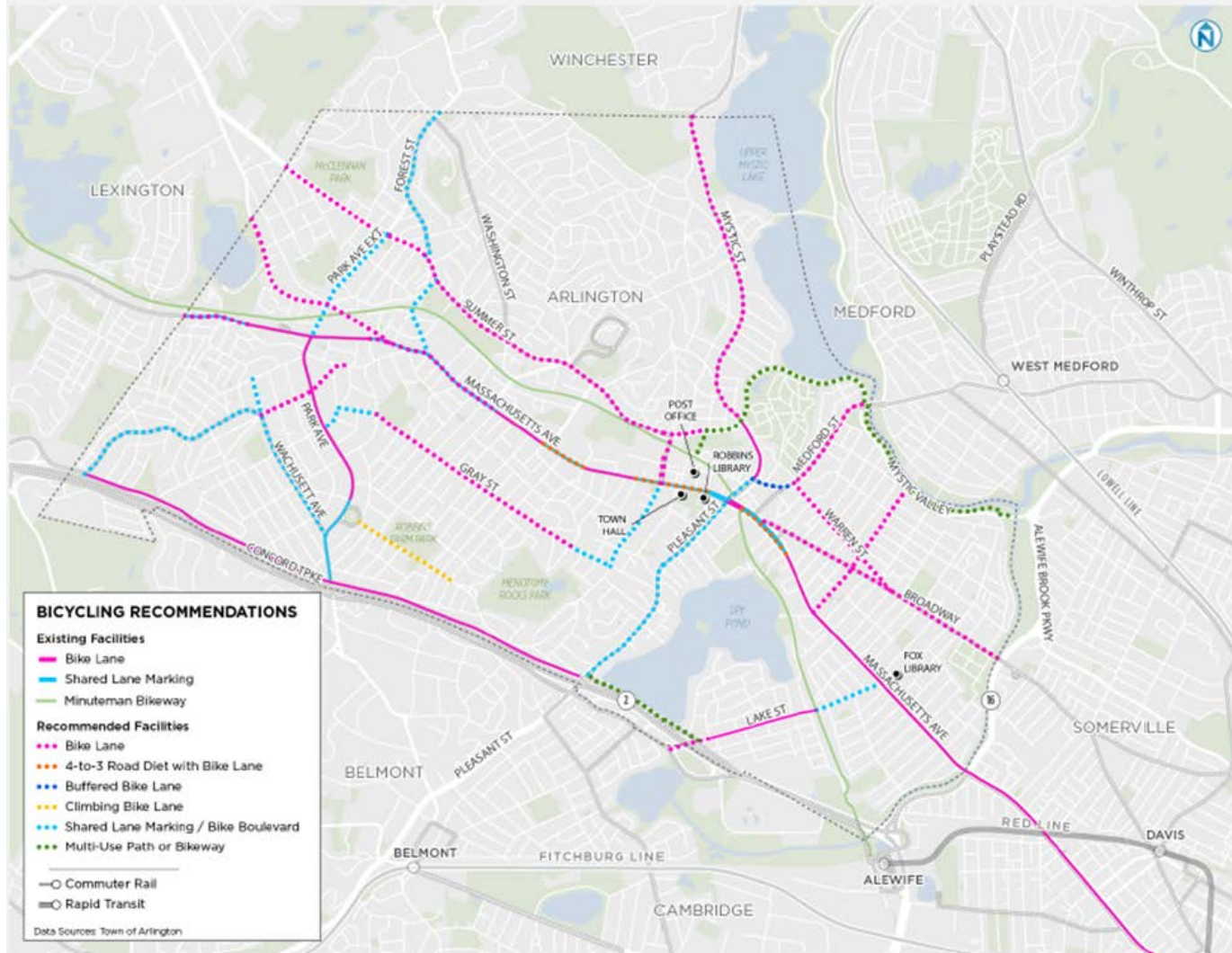
Connect Arlington

- Endorsed by Select Board at July 19 meeting
- Endorsement of overall vision and goals of plan but further items must be brought back for approval



Connect Arlington

RECOMMENDED BICYCLE NETWORK



CURRENT IMPLEMENTATION

Strategy		Sub-strategy	Action	Responsible Parties	Cost	Timeframe
			Priority Strategies are highlighted in yellow	Top Entity: Lead Lower Entities: Supporting	\$: < \$10K \$\$: \$10K - \$25K \$\$\$: \$26K-\$100K \$\$\$\$: > \$100K	Short-term: 1-3 years Medium Term: 4-10 years Long-term: 11-20 years
A.3	Prioritize investments that improve safety at intersections and along road segments with the greatest pedestrian and bicyclist conflicts.	A.3.1	Address safety at roadway intersections with oblique angles, poor site distances and confusing operations.	Public Works, Planning & Community Development	\$\$ - \$\$\$\$	Short-term (tactical) Medium-term (permanent)
B.3	Complete the Minuteman Bikeway Planning Project and implement recommendations that increase access to and capacity and safety on the pathway.	B.3	Complete and implement Project	Planning & Community Development, Bicycle Advisory Committee	\$\$\$	Short-term
C.4	Enhance pedestrian safety through design improvements at intersections	C.4.1	Minimize pedestrian crossing distances and increase visibility at intersections where crashes involving pedestrians are highest.	Public Works	\$-\$\$\$\$	Short-term
D.1	Prioritize new bicycle facilities along corridors currently designated as Arlington's "lane sharing network."	D.1.1	Complete the bicycle lane network along all of Mass Ave.	Public Works, Planning & Community Development, Bicycle Advisory Committee	\$\$\$-\$\$\$\$	Short- to Medium-term
D.2	Construct a multiuse path from the Minuteman Bikeway at Arlington Center to the Mystic River Path along Summer Street and the Mystic Valley Parkway.	D.2.1	Design the path.	Planning & Community Development, Bicycle Advisory Committee, DCR	\$\$\$\$	Short-term
D.5	Study potential to redesign major intersections and rotaries/roundabouts to provide dedicated bicycle lanes that improve rider safety and comfort	D.5.1	Identify and redesign high conflict intersections to improve bike safety.	Planning & Community Development Public Works	\$\$ - \$\$\$	Short-term (tactical) Long-term (permanent)

UPCOMING IMPLEMENTATION

Strategy			Action	Responsible Parties	Cost	Timeframe
		Sub-strategy	Priority Strategies are highlighted in yellow	Top Entity: Lead Lower Entities: Supporting	\$: < \$10K \$\$: \$10K - \$25K \$\$\$: \$26K-\$100K \$\$\$\$: > \$100K	Short-term: 1-3 years Medium Term: 4-10 years Long-term: 11-20 years
A.1	Adopt a Vision Zero Policy	A.1	Adopt a Vision Zero policy.	Planning & Community Development, Public Works, Police	\$	Short-term
A.2	Ensure all roadway design projects adhere to the Town's adopted Complete Streets policy and guidelines.	A.2.1	Update the Town of Arlington's Complete Streets Prioritization Plan and align it with Connect Arlington priorities.	Planning & Community Development, Public Works, Police	\$	Short-term
A.4	Develop and implement a Neighborhood Traffic Calming Program to address safety concerns.	A.4	Develop and implement the program.	Planning & Community Development, Public Works, Transportation Advisory Committee, Police	\$ - \$\$\$	Short-term Ongoing
B.2	Continue to develop and implement Safe Routes to School (SRTS) projects.	B.2	Develop and implement programs and projects.	Arlington Public Schools, Planning & Community Development, Public Works, Police	\$\$\$\$	Ongoing
C.4	Enhance pedestrian safety through design improvements at intersections	C.4.2	Review unsignalized pedestrian crossings along major roadways and implement measures to enhance pedestrian safety.	Planning & Community Development, Public Works, Transportation Advisory Committee, Police	\$\$\$\$	Short-term
D.4	Add or upgrade bicycle parking along commercial corridors and at public facilities.	D.4	Implement bike parking.	Planning & Community Development, Public Works, Bicycle Advisory Committee	\$\$	Short-term

UPCOMING IMPLEMENTATION

Strategy			Action	Responsible Parties	Cost	Timeframe
		Sub-strategy	Priority Strategies are highlighted in yellow	Top Entity: Lead Lower Entities: Supporting	\$: < \$10K \$\$: \$10K - \$25K \$\$\$: \$26K-\$100K \$\$\$\$: > \$100K	Short-term: 1-3 years Medium Term: 4-10 years Long-term: 11-20 years
E.2	Study potential to implement more bus priority initiatives to reduce transit trip times and achieve (near) Bus Rapid Transit service in Arlington.	E.2	Study and Implement	Planning & Community Development, Public Works, Transportation Advisory Committee, MBTA	\$\$\$-\$\$\$\$	Short- to Medium -term
E.3	Enhance the bus stop experience to provide greater comfort and increase safety.	E.3.1	Ensure sidewalks are well maintained and ADA-compliant (including ramps) at all bus stops.	Public Works Disability Commission MBTA	\$\$-\$\$\$	Short-term Ongoing
F.2	Implement mobility recommendations included in Arlington's Net Zero Action Plan to reduce greenhouse gas emissions stemming from the transportation network and its users.	F.2.1	Create and implement a plan to expand public electric vehicle charging at libraries, business districts, public parking, and other facilities.	Planning & Community Development	\$\$\$	Short- to Medium-term
H.2	Develop and regularly update a Local Transportation Improvement Program (LTIP)	H.2.1	Establish an internal LTIP working group to develop the LTIP	Planning & Community Development Town Manager's Office Public Works LTIP Working Group	\$	Short-term